

SSDNow E100

FEATURES/BENEFITS

- > **Performance** — higher IOPS for multi-user environments
- > **Endurance** — Data Integrity Protection featuring DuraClass™ Technology
- > **Dependable** — RAISE™ for advanced data reliability
- > **Durable** — DuraWrite optimises writes to extend endurance
- > **Warranty/support** — three-year warranty with free technical support

SPECIFICATIONS

- > **Form factor** 2.5"
- > **Interface** SATA Rev. 3.0 (6Gb/s) – with backwards compatibility to SATA Rev. 2.0 (3Gb/s)
- > **Capacities**¹ 100GB, 200GB, 400GB
- > **Controller** SandForce – SF2582
- > **Encryption** Automatic Encryption (AES 128bit)
- > **Sequential read/write**²
 - SATA Rev. 3.0 – 100GB – up to: 535/500MB/s
 - 200GB – up to: 535/500MB/s
 - 400GB – up to: 535/500MB/s
- > **Maximum 4k read/write**²
 - 100GB – up to 85,000/79,000 IOPS
 - 200GB – up to 85,000/76,000 IOPS
 - 400GB – up to 74,000/37,000 IOPS
- > **Random 4k read/write**²
 - 100GB – up to: 42,000/78,000 IOPS
 - 200GB – up to: 59,000/76,000 IOPS
 - 400GB – up to: 52,000/31,000 IOPS
- > **Enterprise SMART tools** reliability tracking, usage statistics, life remaining, wear levelling, temperature
- > **Total Bytes Written (TBW)**³
 - 100GB – 1241TB 11 DWPD⁴
 - 200GB – 2483TB 11 DWPD⁴
 - 400GB – 3906TB 9 DWPD⁴
- > **Power-failure support** Tantalum capacitors
- > **Power consumption**
 - 1.18 W idle / 1.18 W avg / 1.22 W (MAX) read / 3.23 W (MAX) write
- > **Storage temperature** -40°C ~ 85°C
- > **Operating temperature** 0°C ~ 70°C
- > **Dimensions** 69.9mm x 100mm x 7mm
- > **Weight** 96.6 grams
- > **Vibration operating** 2.17G peak (7–800Hz)
- > **Vibration non-operating** 20G peak (10–2000Hz)
- > **MTBF** 1 million hours
- > **Guaranteed** three-year warranty with free technical support



¹ Some of the listed capacity on a Flash storage device is used for formatting and other functions and is thus not available for data storage. As such, the actual available capacity for data storage is less than what is listed on the products. For more information, go to Kingston's Flash Memory Guide at kingston.com/flashguide.

² Based on "out-of-box performance". Speed may vary due to host hardware, software and usage.

³ Total Bytes Written (TBW) is derived from the JEDEC Workload (JESD219A).

⁴ Drive Writes Per Day (DWPD).

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KINGSTON PART NUMBERS

SE100S37/100G

SE100S37/200G

SE100S37/400G

